

**Flood Control Project Maintenance
Levee Inspections**

Fall 2018 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD0404	Overall LMA Rating	Total LMA Miles						
Reclamation District No. 0404 Boggs	U	4.10						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.24%				
Trim / Thin Trees	0.06		0.06	1.46%				
Encroachments		0.01	0.04	0.97%	0.01			
Animal Control	0.27	0.32	1.55	37.78%				
Slope Stability	0.01		0.01	0.24%				
Erosion / Bank Caving		0.01	0.04	0.97%				
<i>Supplemental</i>								
DWR Erosion Survey	0.03		0.03	0.73%				
DWR UCIP Field Study					0.18			
<i>LMA Totals:</i>	0.38	0.34	1.74	42.41%	0.19	0.00	0.00	0.00

Unit No. 01 San Joaquin River RB	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
RD0404	M *	2.35						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.43%				
Trim / Thin Trees	0.05		0.05	2.13%				
Encroachments		0.01	0.04	1.70%	0.01			
Animal Control		0.01	0.04	1.70%				
Slope Stability	0.01		0.01	0.43%				
<i>Supplemental</i>								
DWR Erosion Survey	0.03		0.03	1.28%				
DWR UCIP Field Study					0.12			
<i>Unit Totals:</i>	0.10	0.02	0.18	7.66% *	0.13	0.00	0.00	0.00

Unit No. 02 French Camp Slough RB	Overall Unit Rating	Total Unit Miles						
RD0404	U	1.75						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Trim / Thin Trees	0.01		0.01	0.57%				
Animal Control	0.27	0.31	1.51	86.05%				
Erosion / Bank Caving		0.01	0.04	2.28%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.06			
<i>Unit Totals:</i>	0.28	0.32	1.56	88.90%	0.06	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Fall 2018 Levee Inspection Results****Reclamation District No. 0404 Boggs**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† **SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Reclamation District No. 0404 Boggs

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Right	2.35
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M *	
Date of Inspection	5/8/2018 - 5/8/2018		9/25/2018 - 9/25/2018	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Richard Toy KSN		Richard Toy KSN	

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_RD0404_01_s_2013_24				
Comment Code					
Inspector Comment					
The LMA has a copy of the O & M Manual on file.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	25
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_RD0404_01_s_2013_25				
Comment Code					
Inspector Comment					
LMA has adequate flood fight supplies on hand.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	26
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_RD0404_01_s_2013_26				
Comment Code					
Inspector Comment					
LMA staff are maintaining their flood fight training with the last two years.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0404 Boggs

LM Start	0.40	Rating **	M	Issue No.	6 (cont)
LM End	0.41	Issue Type +	Ma	Location *	WS



Front view of the erosion.



Front of the erosion.



Looking downstream at the erosion site.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.48	Rating **	M	Issue No.	102
LM End	0.48	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.939640 °	37.939640 °
				-121.338175 °	-121.338175 °
DWR ID	22968				
Comment Code					
Inspector Comment					
FS_ID:53346 DS_ID:22968 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/2/2018 Crossing shows no sign of pipe or levee integrity issues; down grading to Non-Urgent (D. Sanoski - DWR UCIP).11/29/2016 Flap gates still missing. Pipe open on WS. Could not locate on LS. (K. Fazel - UCIP)03/26/2013 Flap gate missing from WS toe. (P. Amatya - DWR) FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal gravity drainage pipe through the levee, approximately 18 feet below the crown. Pipe may not fully penetrate the levee as it does not daylight on the landside (LS). This drainage pipe was field discovered with no mention of it in any reference. FS Date: 10/2/2018 12:56:00 PM					

LM Start	0.48	Rating **	M	Issue No.	102 (cont)
LM End	0.48	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_53346_20082.jpg



WS- two CM pipes with damaged flap gates

Photo 2 of 3 : UCIP_FA_2018_53346_20081.jpg



WS- left CM pipe with missing flap gate

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.48	Rating **	M	Issue No.	102 (cont)	
LM End	0.48	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.939640 °	37.939640 °	
				-121.338175 °	-121.338175 °	
DWR ID	22968					
Comment Code						
Inspector Comment						
FS_ID:53346 DS_ID:22968 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/2/2018 Crossing shows no sign of pipe or levee integrity issues; down grading to Non-Urgent (D. Sanoski - DWR UCIP).11/29/2016 Flap gates still missing. Pipe open on WS. Could not locate on LS. (K. Fazel - UCIP)03/26/2013 Flap gate missing from WS toe. (P. Amatya - DWR) FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal gravity drainage pipe through the levee, approximately 18 feet below the crown. Pipe may not fully penetrate the levee as it does not daylight on the landside (LS). This drainage pipe was field discovered with no mention of it in any reference. FS Date: 10/2/2018 12:56:00 PM						

Photo 3 of 3 : UCIP_FA_2018_53346_20080.jpg



WS- closer look at left CM pipe with missing flap gate

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.48	Rating **	M	Issue No.	103	
LM End	0.48	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.939640 °	37.939640 °	
				-121.338175 °	-121.338175 °	
DWR ID	22969					
Comment Code						
Inspector Comment						
FS_ID:53347 DS_ID:22969 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/2/2018 Crossing shows no sign of pipe or levee integrity issues; down grading to Non-Urgent (D. Sanoski - DWR UCIP).11/29/2016 Flap gate appears to be either missing or broken. Pipes submerged on WS with concrete block on one pipe during inspection. No pipes found on LS. (K. Fazel - UCIP)03/29/2013 Pipe has broken flap gate. (P. Amatya - DWR) FIELD_STRUCT_DESC: 2 of 2: 36-inch corrugated metal gravity drainage pipe through the levee, approximately 18 feet below the crown. Pipe may not fully penetrate the levee as it does not daylight on the landside (LS). This drainage pipe was field discovered with no mention of it in any reference. FS Date: 10/2/2018 1:04:00 PM						

LM Start	0.48	Rating **	M	Issue No.	103 (cont)
LM End	0.48	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_53347_20086.jpg



WS- two CM pipes with damaged flap gates

Photo 2 of 3 : UCIP_FA_2018_53347_20085.jpg



WS- right CM pipe with damaged flap gate

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.48	Rating **	M	Issue No.	103 (cont)	
LM End	0.48	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.939640 °	37.939640 °	
				-121.338175 °	-121.338175 °	
DWR ID	22969					
Comment Code						
Inspector Comment						
FS_ID:53347 DS_ID:22969 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/2/2018 Crossing shows no sign of pipe or levee integrity issues; down grading to Non-Urgent (D. Sanoski - DWR UCIP).11/29/2016 Flap gate appears to be either missing or broken. Pipes submerged on WS with concrete block on one pipe during inspection. No pipes found on LS. (K. Fazel - UCIP)03/29/2013 Pipe has broken flap gate. (P. Amatya - DWR) FIELD_STRUCT_DESC: 2 of 2: 36-inch corrugated metal gravity drainage pipe through the levee, approximately 18 feet below the crown. Pipe may not fully penetrate the levee as it does not daylight on the landside (LS). This drainage pipe was field discovered with no mention of it in any reference. FS Date: 10/2/2018 1:04:00 PM						

Photo 3 of 3 : UCIP_FA_2018_53347_20084.jpg



WS- closer view of right CM pipe with damaged flap gate

LM Start	0.60	Rating **	A/W	Issue No.	23		
LM End	0.65	Issue Type +	Ob	Location *	LS		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Vegetation				°		°
					°		°
DWR ID	DWR_RD0404_01_f_2018_23						
Comment Code							
V8 : Environmental Requirements.							
Inspector Comment							
Site is not being maintained and is overgrown.							

Photo 1 of 2 : FA_2018_RD0404_305_23_20180927_00058.jpg



Looking northwest at overgrown site on waterward slope. (Fall 2018)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.60	Rating **	A/W	Issue No.	23 (cont)	
LM End	0.65	Issue Type +	Ob	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation				°	
					°	
DWR ID	DWR_RD0404_01_f_2018_23					
Comment Code						
V8 : Environmental Requirements.						
Inspector Comment						
Site is not being maintained and is overgrown.						

Photo 2 of 2 : FA_2018_RD0404_305_23_20180927_00059.jpg



Looking southwest at overgrown site on waterward slope. (Fall 2018)

LM Start	0.65	Rating **	M	Issue No.	104
LM End	0.65	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.938670 °	37.938670 °
				-121.335397 °	-121.335397 °
DWR ID	17952				
Comment Code					
Inspector Comment					
FS_ID:51168 DS_ID:17952 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Steel intake structure on landside of the levee. FIELD_STRUCT_DESC: 1 of 3: 30-inch corrugated metal gravity drainage pipe through the levee, 22 feet below the crown. Flap gate on the waterside (WS) end. Steel intake structure on the landside (LS). [Additional Reference(s): DWR Levee Log, 2006]. FS Date: 3/26/2013					

Photo 1 of 3 : UCIP_FA_2018_51168_20041.jpg



LS- intake structure

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.65	Rating **	M	Issue No.	104 (cont)	
LM End	0.65	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.938670 °	37.938670 °	
				-121.335397 °	-121.335397 °	
DWR ID	17952					
Comment Code						
Inspector Comment						
FS_ID:51168 DS_ID:17952 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Steel intake structure on landside of the levee. FIELD_STRUCT_DESC: 1 of 3: 30-inch corrugated metal gravity drainage pipe through the levee, 22 feet below the crown. Flap gate on the waterside (WS) end. Steel intake structure on the landside (LS). [Additional Reference(s): DWR Levee Log, 2006]. FS Date: 3/26/2013						

Photo 2 of 3 : UCIP_FA_2018_51168_20040.jpg



LS- overview of land side of the levee.

LM Start	0.65	Rating **	M	Issue No.	104 (cont)
LM End	0.65	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2018_51168_20042.jpg



WS- CM pipes with damaged flap gates

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.66	Rating **	M	Issue No.	105
LM End	0.66	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.938670°	37.938670°
				-121.335397°	-121.335397°
DWR ID	18811				
Comment Code					
Inspector Comment					
FS_ID:53348 DS_ID:18811 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/2/2018 The wide levee crown shows no sign of integrity issues; downgrading to Non-Urgent (D. Sanoski - DWR UCIP).12/13/2016 Since previous inspector and 2006 Levee Log cite damage to flap gate, I have upgraded this crossing from Non-Urgent to Urgent. Flap gates need to be in good working condition. (K. Fazel - UCIP)03/26/2013 Steel intake structure on LS. (P. Amatya - DWR)12/26/2006 Landward end filled with dirt. Middle flap gate missing and right flap gate broken as of 1/24/07. (DWR Levee Log) FIELD_STRUCT_DESC: 2 of 3: 30-inch corrugated metal gravity drainage pipe through the levee, 22 feet below the crown. Flap gate on the waterside (WS) end. Steel intake structure on the landside (LS). [Additional Reference(s): DWR Levee Log, 2006]. FS Date: 10/2/2018 12:51:00 PM					

LM Start	0.66	Rating **	M	Issue No.	105 (cont)
LM End	0.66	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_53348_20047.jpg



LS- steel intake structure

Photo 2 of 3 : UCIP_FA_2018_53348_20046.jpg



WS- CM pipes and damaged flap gates

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.66	Rating **	M	Issue No.	105 (cont)	
LM End	0.66	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.938670 °	37.938670 °	
				-121.335397 °	-121.335397 °	
DWR ID	18811					
Comment Code						
Inspector Comment						
FS_ID:53348 DS_ID:18811 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/2/2018 The wide levee crown shows no sign of integrity issues; downgrading to Non-Urgent (D. Sanoski - DWR UCIP).12/13/2016 Since previous inspector and 2006 Levee Log cite damage to flap gate, I have upgraded this crossing from Non-Urgent to Urgent. Flap gates need to be in good working condition. (K. Fazel - UCIP)03/26/2013 Steel intake structure on LS. (P. Amatya - DWR)12/26/2006 Landward end filled with dirt. Middle flap gate missing and right flap gate broken as of 1/24/07. (DWR Levee Log) FIELD_STRUCT_DESC: 2 of 3: 30-inch corrugated metal gravity drainage pipe through the levee, 22 feet below the crown. Flap gate on the waterside (WS) end. Steel intake structure on the landside (LS). [Additional Reference(s): DWR Levee Log, 2006]. FS Date: 10/2/2018 12:51:00 PM						

Photo 3 of 3 : UCIP_FA_2018_53348_20048.jpg



LS- overview of landside of the levee

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.66	Rating **	M	Issue No.	106
LM End	0.66	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.938670 °	37.938670 °
				-121.335397 °	-121.335397 °
DWR ID	18810				
Comment Code					
Inspector Comment					
FS_ID:53349 DS_ID:18810 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/2/2018 The wide levee crown shows no sign of integrity issues; downgrading to Non-Urgent (D. Sanoski - DWR UCIP).12/13/2016 Since previous inspector and 2006 Levee Log cite damage to flap gate, I have upgraded this crossing from Non-Urgent to Urgent. Flap gates need to be in good working condition. (K. Fazel - UCIP)03/26/2013 Steel intake structure on LS. (P. Amatya - DWR)12/26/2006 Landward end filled with dirt. Middle flap gate missing and right flap gate broken as of 1/24/07. (DWR Levee Log) FIELD_STRUCT_DESC: 3 of 3: 30-inch corrugated metal gravity drainage pipe through the levee, 22 feet below the crown. Flap gate on the waterside (WS) end. Steel intake structure on the landside (LS). [Additional Reference(s): DWR Levee Log, 2006]. FS Date: 10/2/2018 12:33:00 PM					

LM Start	0.66	Rating **	M	Issue No.	106 (cont)
LM End	0.66	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_53349_20054.jpg



LS- steel intake structure

Photo 2 of 3 : UCIP_FA_2018_53349_20053.jpg



WS- CM pipes with damaged flap gates

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.66	Rating **	M	Issue No.	106 (cont)	
LM End	0.66	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.938670 °	37.938670 °	
				-121.335397 °	-121.335397 °	
DWR ID	18810					
Comment Code						
Inspector Comment						
FS_ID:53349 DS_ID:18810 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/2/2018 The wide levee crown shows no sign of integrity issues; downgrading to Non-Urgent (D. Sanoski - DWR UCIP).12/13/2016 Since previous inspector and 2006 Levee Log cite damage to flap gate, I have upgraded this crossing from Non-Urgent to Urgent. Flap gates need to be in good working condition. (K. Fazel - UCIP)03/26/2013 Steel intake structure on LS. (P. Amatya - DWR)12/26/2006 Landward end filled with dirt. Middle flap gate missing and right flap gate broken as of 1/24/07. (DWR Levee Log) FIELD_STRUCT_DESC: 3 of 3: 30-inch corrugated metal gravity drainage pipe through the levee, 22 feet below the crown. Flap gate on the waterside (WS) end. Steel intake structure on the landside (LS). [Additional Reference(s): DWR Levee Log, 2006]. FS Date: 10/2/2018 12:33:00 PM						

Photo 3 of 3 : UCIP_FA_2018_53349_20052.jpg



LS- overview of landside of the levee.

LM Start	0.75	Rating **	M	Issue No.	7
LM End	0.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.937758 °	37.937758 °
				-121.334149 °	-121.334149 °
DWR ID	DWR_RD0404_01_s_2012_7				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.75	Rating **	A/W	Issue No.	107
LM End	0.75	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.937657 °	37.937657 °
				-121.334158 °	-121.334158 °
DWR ID	17945				
Comment Code					
Inspector Comment					
FS_ID:52607 DS_ID:17945 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 11/22/2017 Received updated photo from DWR levee inspector D. Torres showing gate has been cleared of sediment to allow operation of the gate on the WS. Crossing has been downgraded from Urgent to No Action Needed based on the 2016 photos and the most current photo. Recommend coordinating with City of Stockton to determine as-builts, CVFPB permit, and date of last internal integrity inspection completed for this crossing. (DWR UCIP - O. Magana) 11/29/2016 Flap gate still buried with sediment on WS. Requires clearing. (K. Fazel - UCIP)03/26/2013 Partially buried flap gate (P. Amatya - DWR) FIELD_STRUCT_DESC: 42-inch corrugated metal drainage discharge pipe, 18 feet below the crown. Flap gate, concrete headwall, and spillway on the waterside (WS). Pump house on the landside (LS). Abandoned concrete headwall, power pole, and two wooden piles found on the LS. This drainage pipe likely belongs to the City of Stockton. [Additional Reference(s): DWR Levee Log, 2006. USACE San Joaquin O&M Manual 1, March 1963, (HLM 0.78)]. FS Date: 11/22/2017					

LM Start	0.75	Rating **	A/W	Issue No.	107 (cont)
LM End	0.75	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_52607_77527.jpg



WS view: WS gate cleared allowing proper operation of gate.

Photo 2 of 3 : UCIP_FA_2018_52607_19962.jpg



WS- drainage outlet structure and CM pipe with flapgate

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.75	Rating **	A/W	Issue No.	107 (cont)							
LM End	0.75	Issue Type +	Ma	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DWR UCIP LMA Responsibility		37.937657°	37.937657°								
			-121.334158°	-121.334158°								
DWR ID	17945											
Comment Code												
Inspector Comment												
<p>FS_ID:52607 DS_ID:17945 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 11/22/2017 Received updated photo from DWR levee inspector D. Torres showing gate has been cleared of sediment to allow operation of the gate on the WS. Crossing has been downgraded from Urgent to No Action Needed based on the 2016 photos and the most current photo. Recommend coordinating with City of Stockton to determine as-builts, CVFPB permit, and date of last internal integrity inspection completed for this crossing. (DWR UCIP - O. Magana)</p> <p>11/29/2016 Flap gate still buried with sediment on WS. Requires clearing. (K. Fazel - UCIP)03/26/2013 Partially buried flap gate (P. Amatya - DWR) FIELD_STRUCT_DESC: 42-inch corrugated metal drainage discharge pipe, 18 feet below the crown. Flap gate, concrete headwall, and spillway on the waterside (WS). Pump house on the landside (LS). Abandoned concrete headwall, power pole, and two wooden piles found on the LS. This drainage pipe likely belongs to the City of Stockton. [Additional Reference(s): DWR Levee Log, 2006. USACE San Joaquin O&M Manual 1, March 1963, (HLM 0.78)]. FS Date: 11/22/2017</p>												

Photo 3 of 3 : UCIP_FA_2018_52607_19961.jpg



WS- Debris and vegetation blocking CM drainage pipe

LM Start	0.78	Rating **	M	Issue No.	8							
LM End	0.78	Issue Type +	Ma	Location *	LS							
Category	Earthen Levee		GPS Latitude/Longitude									
			Start	End								
Item	Trim / Thin Trees		37.937395°	37.937395°								
			-121.333883°	-121.333883°								
DWR ID	DWR_RD0404_01_s_2013_8											
Comment Code												
T1 : Trim trees to at least five feet above ground level.												
Inspector Comment												
Trees are blocking view of the slope.												

Photo 1 of 1 : FA_2018_RD0404_305_8_20180906_00004.jpg



Looking southeast at dense trees on landward slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.79	Rating **	M	Issue No.	108	
LM End	0.79	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.937212°	37.937212°	
				-121.333762°	-121.333762°	
DWR ID	17946					
Comment Code						
Inspector Comment						
FS_ID:46810						
DS_ID:17946						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Appears abandoned; if so should be done so properly.						
FIELD_STRUCT_DESC: Telephone conduit of an unknown size or material through both levees and under the San Joaquin River, at an unknown depth. This buried telephone cable is no longer operational.						
[Additional Reference(s): DWR Levee Log, 2006].						
FS Date: 8/4/2015						

Photo 1 of 3 : UCIP_FA_2018_46810_74753.jpg



WS view looking south: conduits penetrating levee slope now disconnected with those attached to bridge

LM Start	0.79	Rating **	M	Issue No.	108 (cont)
LM End	0.79	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_46810_74754.jpg



WS view looking west: conduits thru levee and attached to bridge

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.79	Rating **	M	Issue No.	108 (cont)	
LM End	0.79	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.937212°	37.937212°	
				-121.333762°	-121.333762°	
DWR ID	17946					
Comment Code						
Inspector Comment						
FS_ID:46810						
DS_ID:17946						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Appears abandoned; if so should be done so properly.						
FIELD_STRUCT_DESC: Telephone conduit of an unknown size or material through both levees and under the San Joaquin River, at an unknown depth. This buried telephone cable is no longer operational.						
[Additional Reference(s): DWR Levee Log, 2006].						
FS Date: 8/4/2015						

Photo 3 of 3 : UCIP_FA_2018_46810_74755.jpg



WS view at crossing looking north

LM Start	0.89	Rating **	A/W	Issue No.	17
LM End	0.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.936159°	37.936159°
				-121.332711°	-121.332711°
DWR ID	DWR_RD0404_01_f_2012_17				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.95	Rating **	A/W	Issue No.	2
LM End	0.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.935990 °	37.935990 °
				-121.331600 °	-121.331600 °
DWR ID	DWR_RD0404_01_s_2012_2				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking the visibility.					

No Photos

LM Start	0.98	Rating **	U	Issue No.	42
LM End	0.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.935918 °	37.935918 °
				-121.331032 °	-121.331032 °
DWR ID	DWR_RD0404_01_s_2017_42				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : FA_2018_RD0404_305_42_20180906_00016.jpg



View of the waterside slope looking southwest.

LM Start	0.98	Rating **	U	Issue No.	42 (cont)
LM End	0.98	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2018_RD0404_305_42_20180906_00017.jpg



Looking northwest at large animal hole (den) on waterward shoulder.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	1.09	Rating **	M	Issue No.	109
LM End	1.09	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.935195°	37.935195°
				-121.329398°	-121.329398°
DWR ID	25128				
Comment Code					
Inspector Comment					
FS_ID:46801 DS_ID:25128 EP_NO: 1164 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Conversation with WWTP engineer Ali Gharegozloo suggested this pipe has been welded shut. If so, mode of abandonment needs verification. FIELD_STRUCT_DESC: 60-inch lock joint reinforced concrete sewage effluent pipe under the levee, 27 feet below the crown. Reinforced concrete apron and cutoff walls. Steel sheet piling apron installed with the pipe on the waterside (WS) slope. Headwall, stairs, and pump with shutoff valve visible on the WS slope. Apparent shutoff valves 30 feet off the landside (LS) toe in alignment with the pipe. (Plans for the construction of a 60-inch lock joint reinforced concrete sewage effluent pipe under the easterly levee of the San Joaquin River authorized under Permit No. 1164, 1947 - City of Stockton). FS Date: 7/9/2015					

LM Start	1.09	Rating **	M	Issue No.	109 (cont)
LM End	1.09	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_46801_74745.jpg



LS view: apparent shut off valves on WWTP property in alignment with 60-inch pipe.

Photo 2 of 3 : UCIP_FA_2018_46801_74747.jpg



WS view: pump with shutoff valves, headwall, stairs visible. Concrete debris along WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	1.09	Rating **	M	Issue No.	109 (cont)	
LM End	1.09	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.935195°	37.935195°	
				-121.329398°	-121.329398°	
DWR ID	25128					
Comment Code						
Inspector Comment						
FS_ID:46801 DS_ID:25128 EP_NO: 1164 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Conversation with WWTP engineer Ali Gharegozloo suggested this pipe has been welded shut. If so, mode of abandonment needs verification. FIELD_STRUCT_DESC: 60-inch lock joint reinforced concrete sewage effluent pipe under the levee, 27 feet below the crown. Reinforced concrete apron and cutoff walls. Steel sheet piling apron installed with the pipe on the waterside (WS) slope. Headwall, stairs, and pump with shutoff valve visible on the WS slope. Apparent shutoff valves 30 feet off the landside (LS) toe in alignment with the pipe. (Plans for the construction of a 60-inch lock joint reinforced concrete sewage effluent pipe under the easterly levee of the San Joaquin River authorized under Permit No. 1164, 1947 - City of Stockton). FS Date: 7/9/2015						

Photo 3 of 3 : UCIP_FA_2018_46801_74748.jpg



WS view: closeup of pump. CMP riser for USGS gage behind pump.

LM Start	1.19	Rating **	C	Issue No.	101
LM End	1.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.934058°	37.934058°
				-121.328188°	-121.328188°
DWR ID	DWR_RD0404_01_f_2016_101				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation on landward slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	1.35	Rating **	M	Issue No.	100
LM End	1.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.931945°	37.931945°
				-121.327150°	-121.327150°
DWR ID	DWR_RD0404_01_s_2012_100				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0404_305_100_20180906_00018.jpg



Looking northwest at untrimmed trees on waterward slope.

LM Start	1.44	Rating **	M	Issue No.	11
LM End	1.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.930450 °	37.930450 °
				-121.327450 °	-121.327450 °
DWR ID	RD0404U01RM42.02				
Comment Code					
Inspector Comment					
09/13/2017: No significant change observed.					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: A series of scarp erosions have been found on the lower levee slope and at the levee toe. [2017 Site ID:RD0404U01RM42.02]					

Photo 1 of 2 : FA_2018_RD0404_305_11_20180906_00005.jpg



Front view of the erosion.

LM Start	1.44	Rating **	M	Issue No.	11 (cont)
LM End	1.46	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2018_RD0404_305_11_20180906_00006.jpg



Close view of the erosion. Note the protection on the lower levee slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	1.50	Rating **	M	Issue No.	27
LM End	1.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.896544 °	37.896544 °
				-121.327121 °	-121.327121 °
DWR ID	DWR_RD0404_01_f_2016_27				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0404_305_27_20180906_00011.jpg



Looking west at untrimmed trees on waterward slope.

LM Start	1.55	Rating **	M	Issue No.	110
LM End	1.55	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.929046 °	37.929046 °
				-121.327248 °	-121.327248 °
DWR ID	18708				
Comment Code					
Inspector Comment					
FS_ID:50763 DS_ID:18708 EP_NO: 4175 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/17/2016 FPIIB Inspector Richard Willoughby noted 3-4 inch depression over pipes on crown, an indication of possible pipe collapse. (K. Fazel - UCIP) FIELD_STRUCT_DESC: 1 of 2: 12-inch steel drainage discharge pipe through the levee, 5 feet below the crown. Siphon breaker on the waterside (WS) shoulder. Power pole, electrical control panel, and pump about 200 feet off the landside (LS) toe. (Plans for installation of a 10-inch, 12-gauge welded steel discharge pipe over the levee authorized under Permit No. 4175, 1963 - City of Stockton). [Additional Reference(s): DWR Levee Log, 2006]. FS Date: 11/17/2016					

Photo 1 of 3 : UCIP_FA_2018_50763_20104.jpg



LS- overview of pipe and pump (far right)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	1.55	Rating **	M	Issue No.	110 (cont)	
LM End	1.55	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.929046°	37.929046°	
				-121.327248°	-121.327248°	
DWR ID	18708					
Comment Code						
Inspector Comment						
FS_ID:50763 DS_ID:18708 EP_NO: 4175 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/17/2016 FPIIB Inspector Richard Willoughby noted 3-4 inch depression over pipes on crown, an indication of possible pipe collapse. (K. Fazel - UCIP) FIELD_STRUCT_DESC: 1 of 2: 12-inch steel drainage discharge pipe through the levee, 5 feet below the crown. Siphon breaker on the waterside (WS) shoulder. Power pole, electrical control panel, and pump about 200 feet off the landside (LS) toe. (Plans for installation of a 10-inch, 12-gauge welded steel discharge pipe over the levee authorized under Permit No. 4175, 1963 - City of Stockton). [Additional Reference(s): DWR Levee Log, 2006]. FS Date: 11/17/2016						

LM Start	1.55	Rating **	M	Issue No.	110 (cont)
LM End	1.55	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_50763_20103.jpg



WS- steel pipes and siphon breakers in steel pipe risers.

Photo 3 of 3 : UCIP_FA_2018_50763_20102.jpg



LS- pipes and pumps (center)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	1.55	Rating **	M	Issue No.	111
LM End	1.55	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.929046 °	37.929046 °
				-121.327248 °	-121.327248 °
DWR ID	17955				

Comment Code

Inspector Comment

FS_ID:50764
DS_ID:17955
EP_NO: 4175
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 11/17/2016 FPIIB Inspector Richard Willoughby noted 3-4 inch dip in crown over pipes, an indication of possible pipe collapse. (K. Fazel - UCIP)
FIELD_STRUCT_DESC: 2 of 2: 12-inch steel drainage discharge pipe through the levee, 5 feet below the crown. Siphon breaker on the waterside (WS) shoulder. Power pole, electrical control panel, and pump about 200 feet off the landside (LS) toe. (Plans for installation of a 10-inch, 12-gauge welded steel discharge pipe over the levee authorized under Permit No. 4175, 1963 - City of Stockton). [Additional Reference(s): DWR Levee Log, 2006, 10-inch pipe referenced].
FS Date: 11/17/2016

LM Start	1.55	Rating **	M	Issue No.	111 (cont)
LM End	1.55	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_50764_19994.jpg



WS- steel pipes and siphon breakers in steel pipe risers.

Photo 2 of 3 : UCIP_FA_2018_50764_19996.jpg



LS- pipe and pump on far left.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	1.55	Rating **	M	Issue No.	111 (cont)	
LM End	1.55	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.929046 °	37.929046 °	
				-121.327248 °	-121.327248 °	
DWR ID	17955					
Comment Code						
Inspector Comment						
FS_ID:50764 DS_ID:17955 EP_NO: 4175 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/17/2016 FPIIB Inspector Richard Willoughby noted 3-4 inch dip in crown over pipes, an indication of possible pipe collapse. (K. Fazel - UCIP) FIELD_STRUCT_DESC: 2 of 2: 12-inch steel drainage discharge pipe through the levee, 5 feet below the crown. Siphon breaker on the waterside (WS) shoulder. Power pole, electrical control panel, and pump about 200 feet off the landside (LS) toe. (Plans for installation of a 10-inch, 12-gauge welded steel discharge pipe over the levee authorized under Permit No. 4175, 1963 - City of Stockton). [Additional Reference(s): DWR Levee Log, 2006, 10-inch pipe referenced]. FS Date: 11/17/2016						

Photo 3 of 3 : UCIP_FA_2018_50764_19995.jpg



LS- pipes and pumps on center.

LM Start	1.57	Rating **	M	Issue No.	112	
LM End	1.57	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.928718 °		37.928718 °
				-121.327206 °		-121.327206 °
DWR ID	17956					
Comment Code						
Inspector Comment						
FS_ID:12386 DS_ID:17956 EP_NO: 15562 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: According to Bob Winter of KSN/LMA representative. Fiber optics cable goes through levee. No sign/indicators found. And photos not taken. FIELD_STRUCT_DESC: 4-inch steel fiber optics conduit under both levees and the channel, 34 feet below the crown. (Plans to install fiber optics communications cable through both levees and under the San Joaquin River authorized under Permit No. 15562, 1990 - US Sprint Communications). [Additional Reference(s): DWR Levee Log, 2006]. FS Date: 3/26/2013						

Photo 1 of 1 : UCIP_FA_2018_12386_20062.jpg



Aerial Photo @HLM=1.5791: No sign posts/markers found.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	1.57	Rating **	M	Issue No.	36
LM End	1.57	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.928717 °	37.928717 °
				-121.327132 °	-121.327132 °
DWR ID	DWR_RD0404_01_s_2016_36				
Comment Code					
GA : Garbage					
Inspector Comment					
Garbage on landward slope and toe.					

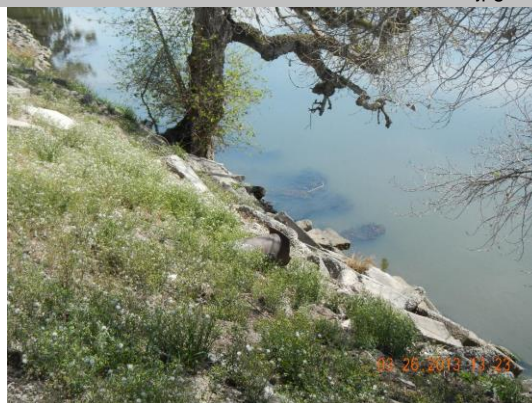
Photo 1 of 1 : FA_2018_RD0404_305_36_20180906_00015.jpg



Looking east at garbage on landward slope and toe.

LM Start	1.64	Rating **	M	Issue No.	113	
LM End	1.64	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.928090 °	37.928090 °	
				-121.326215 °	-121.326215 °	
DWR ID	18812					
Comment Code						
Inspector Comment						
FS_ID:40487 DS_ID:18812 EP_NO: 10897 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned crossing. WS pipe capped with steel pipe and LS pipe cut. FIELD_STRUCT_DESC: *ABANDONED* 14-inch irrigation discharge pipe of an unknown material through the levee, 3 feet below the crown. Siphon breaker on the waterside (WS). (Plans to install a 20-horsepower irrigation pump on an existing structure and a 14-inch discharge pipe through the levee authorized under Permit No. 10897, 1975 - Alfred Volpi. 14-inch pipe replaces existing 12-inch pipe). [Additional Reference(s): DWR Levee Log, 2006. USACE San Joaquin O&M Manual 1, March 1963, (HLM 1.63), 12-inch pipe referenced, 5.5 feet below the crown]. FS Date: 3/26/2013						

Photo 1 of 3 : UCIP_FA_2018_40487_20064.jpg



WS- steel pipe capped with steel plate.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	1.64	Rating **	M	Issue No.	113 (cont)	
LM End	1.64	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.928090 °	37.928090 °	
				-121.326215 °	-121.326215 °	
DWR ID	18812					
Comment Code						
Inspector Comment						
FS_ID:40487						
DS_ID:18812						
EP_NO: 10897						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Abandoned crossing. WS pipe capped with steel pipe and LS pipe cut.						
FIELD_STRUCT_DESC: *ABANDONED* 14-inch irrigation discharge pipe of an unknown material through the levee, 3 feet below the crown. Siphon breaker on the waterside (WS). (Plans to install a 20-horsepower irrigation pump on an existing structure and a 14-inch discharge pipe through the levee authorized under Permit No. 10897, 1975 - Alfred Volpi. 14-inch pipe replaces existing 12-inch pipe).						
[Additional Reference(s): DWR Levee Log, 2006. USACE San Joaquin O&M Manual 1, March 1963, (HLM 1.63), 12-inch pipe referenced, 5.5 feet below the crown].						
FS Date: 3/26/2013						

LM Start	1.64	Rating **	M	Issue No.	113 (cont)
LM End	1.64	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_40487_20063.jpg



LS- concrete standpipe on levee slope

Photo 3 of 3 : UCIP_FA_2018_40487_20065.jpg



WS- abandoned steel pipe capped with steel plate.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0404 Boggs

Looking south at dense vegetation on waterward slope.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	1.81	Rating **	M	Issue No.	114	
LM End	1.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.926168 °	37.926168 °	
				-121.324514 °	-121.324514 °	
DWR ID	17961					
Comment Code						
Inspector Comment						
FS_ID:40797						
DS_ID:17961						
EP_NO: 6560						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Damaged siphon breaker in pipe riser near the landward shoulder.						
FIELD_STRUCT_DESC: 8-inch steel irrigation discharge pipe through the levee, 7 feet below the crown. Chain-link fence around the pump and motor on the waterside (WS) slope. (Plans to install a 7-horsepower pump and motor, cyclone fence, and an 8-inch steel pipe through the levee authorized under Permit No. 6560, 1969 - City of Stockton, Department of Public Works). [Additional Reference(s): DWR Levee Log, 2006].						
FS Date: 3/26/2013						

LM Start	1.81	Rating **	M	Issue No.	114 (cont)
LM End	1.81	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_40797_20073.jpg



WS- slanted pump, pipe, and concrete steps on levee slope.

Photo 2 of 3 : UCIP_FA_2018_40797_20072.jpg



WS- slanted pump, and pipe on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	1.81	Rating **	M	Issue No.	114 (cont)	
LM End	1.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.926168 °	37.926168 °	
				-121.324514 °	-121.324514 °	
DWR ID	17961					
Comment Code						
Inspector Comment						
FS_ID:40797						
DS_ID:17961						
EP_NO: 6560						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Damaged siphon breaker in pipe riser near the landward shoulder.						
FIELD_STRUCT_DESC: 8-inch steel irrigation discharge pipe through the levee, 7 feet below the crown. Chain-link fence around the pump and motor on the waterside (WS) slope. (Plans to install a 7-horsepower pump and motor, cyclone fence, and an 8-inch steel pipe through the levee authorized under Permit No. 6560, 1969 - City of Stockton, Department of Public Works). [Additional Reference(s): DWR Levee Log, 2006].						
FS Date: 3/26/2013						

Photo 3 of 3 : UCIP_FA_2018_40797_20071.jpg



LS- damaged and obstructed siphon breaker on levee shoulder.

LM Start	2.00	Rating **	U	Issue No.	33
LM End	2.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.923673 °	37.923673 °
				-121.323015 °	-121.323015 °
DWR ID	DWR_RD0404_01_s_2016_33				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Dead tree on waterward slope					

Photo 1 of 1 : FA_2018_RD0404_305_33_20180906_00014.jpg



Looking west at dead tree on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	09/25/2018 09/25/2018	Richard Willoughby

LM Start	2.14	Rating **	M	Issue No.	22
LM End	2.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.922040 °	37.922040 °
				-121.321446 °	-121.321446 °
DWR ID	DWR_RD0404_01_f_2017_22				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0404_305_22_20180906_00010.jpg



View of the waterside slope looking south.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Reclamation District No. 0404 Boggs

Waterway			Bank	Unit Miles
Unit No. 02 French Camp Slough			Right	1.75
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/8/2018 - 5/8/2018		9/25/2018 - 9/25/2018	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Richard Toy KSN		Richard Toy KSN	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Reclamation District No. 0404 Boggs

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.14	Rating **	U	Issue No.	14 (cont)	
LM End	0.14	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.918875 °		37.918875 °
				-121.316587 °		-121.316587 °
DWR ID	DWR_RD0404_02_f_2017_14					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Erosion occurred winter 2017.						

Photo 2 of 2 : FA_2018_RD0404_306_14_20180906_00004.jpg



Looking southeast at erosion on waterward slope.

LM Start	0.30	Rating **	M	Issue No.	3
LM End	0.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.918508 °	37.919543 °
				-121.314105 °	-121.311432 °
DWR ID	DWR_RD0404_02_s_2012_3				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent program not working.					

No Photos

LM Start	0.48	Rating **	M	Issue No.	8
LM End	0.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.919525 °	37.919525 °
				-121.311193 °	-121.311193 °
DWR ID	DWR_RD0404_02_s_2012_8				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent program not working.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.58	Rating **	M	Issue No.	24
LM End	0.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.919223 °	37.919223 °
				-121.309490 °	-121.309490 °
DWR ID	DWR_RD0404_02_s_2017_24				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.68	Rating **	U	Issue No.	21
LM End	0.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.919245 °	37.916652 °
				-121.307705 °	-121.305085 °
DWR ID	DWR_RD0404_02_s_2016_21				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Large holes noted on landward slope.					

Photo 1 of 2 : FA_2018_RD0404_306_21_20180906_00009.jpg



Looking northeast at large rodent hole on landward slope.

LM Start	0.68	Rating **	U	Issue No.	21 (cont)
LM End	0.94	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2018_RD0404_306_21_20180906_00010.jpg



Looking east at large rodent hole on landward slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.73	Rating **	M	Issue No.	25	
LM End	0.73	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.919336 °		37.919336 °
				-121.306782 °		-121.306782 °
DWR ID	18781					
Comment Code						
Inspector Comment						
FS_ID:10908						
DS_ID:18781						
EP_NO: 3340A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - Not working for 5 years- Golf club staff- Wooden						
Walkway; Concrete steps- Damaged siphon breaker						
FIELD_STRUCT_DESC: 6-inch steel irrigation discharge pipe through						
the levee, 2 feet below the crown. One corrugated metal cutoff wall.						
Pump on a pile structure in the stream. Shutoff valve and siphon						
breaker on the waterside (WS) shoulder. Timber walkway on the WS						
slope. (Plans for installation of three pumping plants on the north levee						
of French Camp Slough authorized under Permit No. 3340-A, 1960 -						
City of Stockton). [Additional Reference(s): DWR Levee Log, 2006].						
FS Date: 3/27/2013						

LM Start	0.73	Rating **	M	Issue No.	25 (cont)
LM End	0.73	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_10908_18182.jpg



WS- pump on steel structure and wooden walkway

Photo 2 of 3 : UCIP_FA_2018_10908_18181.jpg



WS- damaged, obstructed and buried siphon breaker

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.73	Rating **	M	Issue No.	25 (cont)	
LM End	0.73	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.919336 °	37.919336 °	
				-121.306782 °	-121.306782 °	
DWR ID	18781					
Comment Code						
Inspector Comment						
FS_ID:10908 DS_ID:18781 EP_NO: 3340A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - Not working for 5 years- Golf club staff- Wooden Walkway; Concrete steps- Damaged siphon breaker FIELD_STRUCT_DESC: 6-inch steel irrigation discharge pipe through the levee, 2 feet below the crown. One corrugated metal cutoff wall. Pump on a pile structure in the stream. Shutoff valve and siphon breaker on the waterside (WS) shoulder. Timber walkway on the WS slope. (Plans for installation of three pumping plants on the north levee of French Camp Slough authorized under Permit No. 3340-A, 1960 - City of Stockton). [Additional Reference(s): DWR Levee Log, 2006]. FS Date: 3/27/2013						

Photo 3 of 3 : UCIP_FA_2018_10908_18180.jpg



LS- overview of LS slope

LM Start	0.74	Rating **	M	Issue No.	26
LM End	0.74	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.919308 °	37.919308 °
				-121.306714 °	-121.306714 °
DWR ID	18782				
Comment Code					
Inspector Comment					
FS_ID:10945					
DS_ID:18782					
EP_NO: 4448					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Concrete stairway on waterward slope- Not found.					
Pump was working during field survey. Siphon breaker cap missing.					
FIELD_STRUCT_DESC: 18-inch steel drainage discharge pipe through the levee, 9.3 feet below the crown. Pump on the landside (LS). Two corrugated metal cutoff walls. Siphon breaker in a concrete well on the waterside (WS) shoulder. (Plans for installation of a discharge pipe through the levee authorized under Permit No. 4448, 1964 - City of Stockton, Department of Public Works). [Additional Reference(s): DWR Levee Log, 2006].					
FS Date: 3/27/2013					

Photo 1 of 3 : UCIP_FA_2018_10945_18248.jpg



WS- siphon breaker without cap in concrete riser

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.74	Rating **	M	Issue No.	26 (cont)	
LM End	0.74	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.919308 °	37.919308 °	
				-121.306714 °	-121.306714 °	
DWR ID	18782					
Comment Code						
Inspector Comment						
FS_ID:10945						
DS_ID:18782						
EP_NO: 4448						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Concrete stairway on waterward slope- Not found.						
Pump was working during field survey. Siphon breaker cap missing.						
FIELD_STRUCT_DESC: 18-inch steel drainage discharge pipe through the levee, 9.3 feet below the crown. Pump on the landside (LS). Two corrugated metal cutoff walls. Siphon breaker in a concrete well on the waterside (WS) shoulder. (Plans for installation of a discharge pipe through the levee authorized under Permit No. 4448, 1964 - City of Stockton, Department of Public Works). [Additional Reference(s): DWR Levee Log, 2006].						
FS Date: 3/27/2013						

LM Start	0.74	Rating **	M	Issue No.	26 (cont)
LM End	0.74	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_10945_18247.jpg



WS- concrete riser on steep levee slope

Photo 3 of 3 : UCIP_FA_2018_10945_18250.jpg



LS- overview of pumping plant and levee slope

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0404 Boggs

* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
N/A : Not Applicable	N : Not Inspected/Rated	Ob : Design & System Obsolescence
WS : Water Side	M : Minimally Acceptable	En : Enforcement
CR : Crown	U : Unacceptable	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	09/25/2018 09/25/2018	Richard Willoughby

LM Start	1.03	Rating **	U	Issue No.	20 (cont)	
LM End	1.08	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.916302°	37.916383°	
				-121.303690°	-121.302802°	
DWR ID	DWR_RD0404_02_s_2016_20					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
Large rodent holes on landward slope and levee crown.						

Photo 4 of 4 : FA_2018_RD0404_306_20_20180906_00008.jpg



Looking at rodent hole on landward slope.

LM Start	1.10	Rating **	M	Issue No.	11
LM End	1.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.916354°	37.916626°
				-121.302471°	-121.300918°
DWR ID	DWR_RD0404_02_s_2012_11				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Grouting program is being used but is not effective.					

Photo 1 of 2 : FA_2018_RD0404_306_11_20180906_00001.jpg



Looking east at large rodent hole on landward slope.

LM Start	1.10	Rating **	M	Issue No.	11 (cont)
LM End	1.19	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2018_RD0404_306_11_20180906_00002.jpg



Looking southwest at several rodent holes on landward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	09/25/2018 09/25/2018	Richard Willoughby

LM Start	1.55	Rating **	M	Issue No.	27
LM End	1.55	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.918411 °	37.918411 °
				-121.295128 °	-121.295128 °
DWR ID	18792				
Comment Code					
Inspector Comment					
FS_ID:51171 DS_ID:18792 EP_NO: 3340 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 11/29/2016 Pipe was not found. As per DWR Inspector Richard Willoughby, pipe was removed by City without a permit. Erosion cited previously has been backfilled. Backfill material on WS is redder in color than original material, indicating a recent backfill. Crossing has been downgraded from Urgent to Non-Urgent since no permit issued for this work. (K. Fazel - UCIP)03/27/2013 Abandoned and capped 3-in GI pipe found on WS. Damaged air-valve/siphon breaker found on LS.Gully formed due to leaky pipe. A pump house found on LS but it needs to be verified by LMA whether this is associated with this crossing. (P. Amatya - DWR) FIELD_STRUCT_DESC: *REMOVED* 3-inch galvanized iron irrigation discharge pipe through the levee, 1 foot below the crown. Pile structure in the stream. Damaged siphon breaker at the landside (LS) toe. (Plans for installation of three pumping plants on the north levee of French Camp Slough authorized under Permit No. 3340-A, 1960 - City of Stockton). FS Date: 11/29/2016					

Photo 1 of 3 : UCIP_FA_2018_51171_18134.jpg



WS- capped 3-inch GI pipe

LM Start	1.55	Rating **	M	Issue No.	27 (cont)
LM End	1.55	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_51171_18133.jpg



WS- soil erosion and gully formation due to leaky pipe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	09/25/2018 09/25/2018	Richard Willoughby

LM Start	1.55	Rating **	M	Issue No.	27 (cont)	
LM End	1.55	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.918411 °	37.918411 °	
				-121.295128 °	-121.295128 °	
DWR ID	18792					
Comment Code						
Inspector Comment						
FS_ID:51171 DS_ID:18792 EP_NO: 3340 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 11/29/2016 Pipe was not found. As per DWR Inspector Richard Willoughby, pipe was removed by City without a permit. Erosion cited previously has been backfilled. Backfill material on WS is redder in color than original material, indicating a recent backfill. Crossing has been downgraded from Urgent to Non-Urgent since no permit issued for this work. (K. Fazel - UCIP)03/27/2013 Abandoned and capped 3-in GI pipe found on WS. Damaged air-valve/siphon breaker found on LS. Gully formed due to leaky pipe. A pump house found on LS but it needs to be verified by LMA whether this is associated with this crossing. (P. Amatya - DWR) FIELD_STRUCT_DESC: *REMOVED* 3-inch galvanized iron irrigation discharge pipe through the levee, 1 foot below the crown. Pile structure in the stream. Damaged siphon breaker at the landside (LS) toe. (Plans for installation of three pumping plants on the north levee of French Camp Slough authorized under Permit No. 3340-A, 1960 - City of Stockton). FS Date: 11/29/2016						

Photo 3 of 3 : UCIP_FA_2018_51171_18132.jpg



WS- abandoned pump station.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	09/25/2018 09/25/2018	Richard Willoughby

LM Start	1.75	Rating **	M	Issue No.	28
LM End	1.75	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.917324 °	37.917324 °
				-121.291882 °	-121.291882 °
DWR ID	18793				
Comment Code					
Inspector Comment					
FS_ID:41904 DS_ID:18793 EP_NO: 6623 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Need to contact owner to determine status of crossing and install markers if appropriate to do so. FIELD_STRUCT_DESC: 5-inch steel natural gas pipeline through the levee and across the channel, 6.4 feet below the crown. One corrugated metal cutoff wall. Waterside (WS) slope rock revetted. Vent pipe at the WS shoulder. (Plans to install a 5-inch steel natural gas pipeline across Walker Slough and across French Camp Slough authorized under Permit No. 6623, 1969 - Laymac Corporation). [Additional Reference(s): DWR Levee Log, 2006]. FS Date: 3/27/2013					

No Photos

LM Start	1.76	Rating **	M	Issue No.	29
LM End	1.76	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.917284 °	37.917284 °
				-121.291740 °	-121.291740 °
DWR ID	18804				
Comment Code					
Inspector Comment					
FS_ID:10846 DS_ID:18804 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Only a 7 ft x 14 ft concrete vault found on LS.Needs a sign post.Bob Winter from KSN(representative of RD 404) will investigate on this crossing. FIELD_STRUCT_DESC: 1 of 2: 42-inch reinforced concrete sewer line through the levee, 8 feet below the crown. Pipe crosses another 42-inch sewer line under the channel. [Additional Reference(s): DWR Levee Log, 2006]. FS Date: 3/27/2013					

Photo 1 of 3 : UCIP_FA_2018_10846_18127.jpg



LS- 7' x 14' concrete vault.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	09/25/2018 09/25/2018	Richard Willoughby

LM Start	1.76	Rating **	M	Issue No.	29 (cont)	
LM End	1.76	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.917284 °	37.917284 °	
				-121.291740 °	-121.291740 °	
DWR ID	18804					
Comment Code						
Inspector Comment						
FS_ID:10846 DS_ID:18804 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Only a 7 ft x 14 ft concrete vault found on LS.Needs a sign post.Bob Winter from KSN(representative of RD 404) will investigate on this crossing. FIELD_STRUCT_DESC: 1 of 2: 42-inch reinforced concrete sewer line through the levee, 8 feet below the crown. Pipe crosses another 42-inch sewer line under the channel. [Additional Reference(s): DWR Levee Log, 2006]. FS Date: 3/27/2013						

Photo 2 of 3 : UCIP_FA_2018_10846_18126.jpg



Crown view of the levee.

LM Start	1.76	Rating **	M	Issue No.	29 (cont)
LM End	1.76	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2018_10846_18128.jpg



WS- no pipes found.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	09/25/2018 09/25/2018	Richard Willoughby

LM Start	1.76	Rating **	M	Issue No.	30
LM End	1.76	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.917284 °	37.917284 °
				-121.291740 °	-121.291740 °
DWR ID	18787				
Comment Code					
Inspector Comment					
FS_ID:12426 DS_ID:18787 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Only a 7 ft x 14 ft concrete vault found on LS.Needs a sign post.Bob Winter from KSN(representative of RD 404) will investigate on this crossing. FIELD_STRUCT_DESC: 2 of 2: 42-inch reinforced concrete sewer line through the levee, 8 feet below the crown. Pipe crosses another 42-inch sewer line under the channel. [Additional Reference(s): DWR Levee Log, 2006]. FS Date: 3/27/2013					

LM Start	1.76	Rating **	M	Issue No.	30 (cont)
LM End	1.76	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_12426_20130.jpg



LS- 7' x 14' concrete vault.

Photo 2 of 3 : UCIP_FA_2018_12426_20129.jpg



Crown view of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	09/25/2018 09/25/2018	Richard Willoughby

LM Start	1.76	Rating **	M	Issue No.	30 (cont)	
LM End	1.76	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.917284 °	37.917284 °	
				-121.291740 °	-121.291740 °	
DWR ID	18787					
Comment Code						
Inspector Comment						
FS_ID:12426 DS_ID:18787 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Only a 7 ft x 14 ft concrete vault found on LS.Needs a sign post.Bob Winter from KSN(representative of RD 404) will investigate on this crossing. FIELD_STRUCT_DESC: 2 of 2: 42-inch reinforced concrete sewer line through the levee, 8 feet below the crown. Pipe crosses another 42-inch sewer line under the channel. [Additional Reference(s): DWR Levee Log, 2006]. FS Date: 3/27/2013						

Photo 3 of 3 : UCIP_FA_2018_12426_20131.jpg



WS- no pipes found.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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